VAISALA

GRF AT A GLANCE:
Keys to safety and compliance in runway operations

What is GRF?

ICAO's new Global Reporting Format (GRF) framework creates a globally harmonized methodology for assessing and reporting runway conditions. Driven by the need for improved safety, it gives airports new responsibilities related to compliance and technology.

GRF goes into effect November 4, 2021

GRF adopts many practices from the FAA's Takeoff and Landing Performance Assessment (TALPA) initiative

Who is affected by GRF?

All ICAO-registered international airports are required to comply. In practice, most domestic or regional airports will also adopt the shared language of GRF.

Runway excursions and safety

GRF recognizes the significant safety- and efficiency-related problems associated with runway excursions

Alongside risk to passengers and crew, these accidents create operational disruption and substantial financial losses to airlines and airports
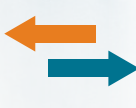
The new GRF methodology is expected to be more relevant to aircraft performance settings on takeoff and landing

What's changing under GRF?

GRF focuses on observed contaminants on each runway third

Friction measurements will no longer be used as the primary means for reporting about runway conditions

GRF reporting is mandatory around the globe (even in locales with no freezing weather), with the U.S. and Canada still adhering to TALPA

Assessment must take place whenever there are significant changes to runway conditions, not just periodically

Understanding the GRF runway condition report

GRF uses a standardized report for runway assessment and corrective actions required. The report contains two parts:

1 Aircraft performance calculation

- Runway condition codes from 0-6, for each runway third
- Contaminant coverage assessment (25, 50, 75, or 100%)
- Depth of contaminant layer(s)
- Generalized condition description (15 standardized choices)

Runway condition codes:

0	6
Unusable runways	Dry, optimal conditions

2 Situational awareness assessment

- Description of snowbanks, chemical treatments, runway length reductions, etc.
- Includes the option for freeform notes

Keys to an efficient rollout

Trained, competent staff

Team collaboration and communication

Good processes and best practices

Best-of-breed technology and solutions

Vaisala's Mobile GRF/TALPA Reporter

The Vaisala Mobile GRF/TALPA Reporter provides immediate, reliable reporting on runway conditions and improves efficiency for airport operations. It enables runway inspectors to do their work faster, more accurately, and more objectively.

The technologies

- Built around Vaisala's proven MD-30 sensor, the Mobile GRF/TALPA Reporter is extremely rugged and measures all relevant surface conditions. It can be mounted to any vehicle and uses an intuitive smartphone app.

- RoadAI, Vaisala's pavement data management, visualization, and analysis platform, converts video data into color-coded condition maps and can be used for detailed analysis and training purposes.

Mobile GRF/TALPA Reporter key benefits

- **Faster, reliable technology minimizes inspector's time on the runway**
- **Affordably improves airport capacity and efficiency**
- **More objective assessment and reporting that complies with ICAO and FAA TALPA**

Gain benefits beyond compliance.

Learn more about the Vaisala Mobile GRF/TALPA Reporter and how it can enable you to meet ICAO's new GRF requirements — and improve your operations regardless of the regulatory environment.

VAISALA   vaisala.com/GRF-TALPA